

AMENDMENTS TO THE CLAIMS

1-23. (Cancelled).

24. (Original) An information recording device writing information in a circumferential direction of a disk-type recording medium with a substantially constant linear density, the device comprising:

test-writing means for performing a test-writing in a predetermined area on said disk-type recording medium at a predetermined basic linear velocity so as to determine an optimum recording power at said basic linear velocity according to a result of said test-writing; and

recording-power setting means for setting a recording power according to a result of a predetermined calculation performed to said optimum recording power, when a recording is performed on said disk-type recording medium at a linear velocity different from said predetermined basic linear velocity.

25. (Currently Amended) The information recording device as claimed in claim 24,

wherein said test-writing means includes optimum recording-state storing means for storing a value in accordance with a reproduction signal reproduced from said disk-type recording medium as an optimum recording-state targeted value, when a recording is performed on said disk-type recording medium with said optimum recording power; and

said recording-power setting means includes:

recording-state targeted value setting means for setting a recording-state targeted value according to a result of a predetermined calculation performed to said

optimum recording-state targeted value, when the recording is performed on said disk-type recording medium at the linear velocity different from the predetermined basic linear velocity; and

power correcting means for correcting said recording power by comparing said recording-state targeted value with said optimum recording-state targeted value during a recording of information to said disk-type recording medium.

26. (Original) The information recording device as claimed in claim 25, including operational expression/coefficient setting means for setting at least one of an operational expression and a coefficient performing said predetermined calculation, in accordance with a type of said disk-type recording medium.

27. (Original) The information recording device as claimed in claim 26, including medium-type judging means for judging the type of said disk-type recording medium according to an identification code embedded in said disk-type recording medium.

28. (Original) The information recording device as claimed in claim 24, including record-pulse-width changing means for changing a record pulse width according to said linear velocity.

29. (Original) The information recording device as claimed in claim 25, including record-pulse-width changing means for changing a record pulse width according to said linear velocity.

30. (Original) The information recording device as claimed in claim 26,

including record-pulse-width changing means for changing a record pulse width according to at least one of said linear velocity and the type of said disk-type recording medium.

31. (Original) The information recording device as claimed in claim 27, including record-pulse-width changing means for changing a record pulse width according to at least one of said linear velocity and the type of said disk-type recording medium.